

=> fil reg; d que 16

FILE 'REGISTRY' ENTERED AT 11:15:36 ON 19 MAR 2002
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STRUCTURE FILE UPDATES: 17 MAR 2002 HIGHEST RN 401569-84-4
DICTIONARY FILE UPDATES: 17 MAR 2002 HIGHEST RN 401569-84-4

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

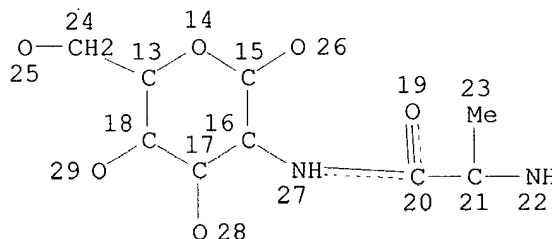
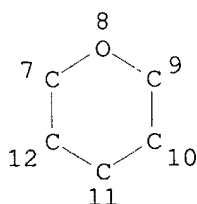
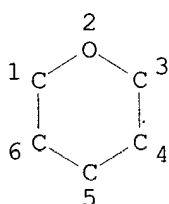
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

The P indicator for Preparations was not generated for all of the
CAS Registry Numbers that were added to the H/Z/CA/CAplus files between
12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches
during this period, either directly appended to a CAS Registry Number
or by qualifying an L-number with /P, may have yielded incomplete results.
As of 1/23/02, the situation has been resolved. Also, note that searches
conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files
incorporating CAS Registry Numbers with the P indicator between 12/27/01
and 1/23/02, are encouraged to re-run these strategies. Contact the
CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698,
worldwide, or send an e-mail to help@cas.org for further assistance or to
receive a credit for any duplicate searches.

L1

STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 29

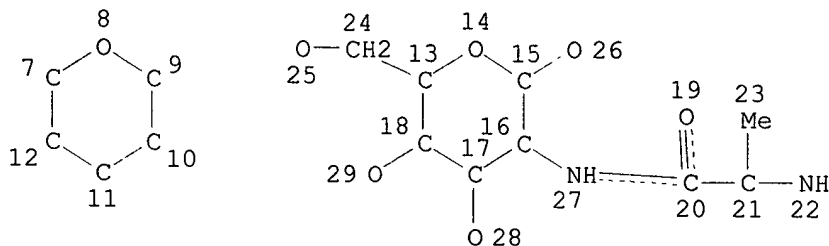
STEREO ATTRIBUTES: NONE

L2 11 SEA FILE=REGISTRY SSS FUL L1

L3 STR

*original full file
search*

≥ 3 sugars present



*need new search
done on this
structure
(2 sugars; X, Y, Z all = H)*

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L5 13 SEA FILE=REGISTRY SSS FUL L3
L6 2 SEA FILE=REGISTRY ABB=ON L5 NOT (L2)

*previously printed
(≥3 sugars)*

=> fil capl; d que nos 17; fil uspatf; d que nos 18
FILE 'CAPLUS' ENTERED AT 11:17:11 ON 19 MAR 2002
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FILE COVERS 1907 - 19 Mar 2002 VOL 136 ISS 12
FILE LAST UPDATED: 18 Mar 2002 (20020318/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAPLUS files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

L1 STR
L2 11 SEA FILE=REGISTRY SSS FUL L1

L3 STR
 L5 13 SEA FILE=REGISTRY SSS FUL L3
 L6 2 SEA FILE=REGISTRY ABB=ON L5 NOT L2
 L7 4 SEA FILE=CAPLUS ABB=ON L6

FILE 'USPATFULL' ENTERED AT 11:17:11 ON 19 MAR 2002
 CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 14 Mar 2002 (20020314/PD)
 FILE LAST UPDATED: 14 Mar 2002 (20020314/ED)
 HIGHEST GRANTED PATENT NUMBER: US6357047
 HIGHEST APPLICATION PUBLICATION NUMBER: US2002032920
 CA INDEXING IS CURRENT THROUGH 14 Mar 2002 (20020314/UPCA)
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 14 Mar 2002 (20020314/PD)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2001
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2001

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
 >>> original, i.e., the earliest published granted patents or <<<
 >>> applications. USPAT2 contains full text of the latest US <<<
 >>> publications, starting in 2001, for the inventions covered in <<<
 >>> USPATFULL. A USPATFULL record contains not only the original <<<
 >>> published document but also a list of any subsequent <<<
 >>> publications. The publication number, patent kind code, and <<<
 >>> publication date for all the US publications for an invention <<<
 >>> are displayed in the PI (Patent Information) field of USPATFULL <<<
 >>> records and may be searched in standard search fields, e.g., /PN, <<<
 >>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
 >>> through the new cluster USPATALL. Type FILE USPATALL to <<<
 >>> enter this cluster. <<<
 >>> <<<
 >>> Use USPATALL when searching terms such as patent assignees, <<<
 >>> classifications, or claims, that may potentially change from <<<
 >>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
 substance identification.

L1 STR
 L2 11 SEA FILE=REGISTRY SSS FUL L1
 L3 STR
 L5 13 SEA FILE=REGISTRY SSS FUL L3
 L6 2 SEA FILE=REGISTRY ABB=ON L5 NOT L2
 L8 2 SEA FILE=USPATFULL ABB=ON L6

=> dup rem 17,18

FILE 'CAPLUS' ENTERED AT 11:17:18 ON 19 MAR 2002
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE 'USPATFULL' ENTERED AT 11:17:18 ON 19 MAR 2002
 CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)
 PROCESSING COMPLETED FOR L7
 PROCESSING COMPLETED FOR L8
 L10 6 DUP REM L7 L8 (0 DUPLICATES REMOVED)
 ANSWERS '1-4' FROM FILE CAPLUS

ANSWERS '5-6' FROM FILE USPATFULL

=> d ibib abs hitstr 110 1-6; fil cao; d que nos 19; fil hom

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:552973 CAPLUS

DOCUMENT NUMBER: 113:152973

TITLE: Preparation of 6-O-(.beta.-D-glucosaminy)-D-glucosamine phosphate derivatives as antitumor agents

INVENTOR(S): Shiba, Tetsuo; Soga, Tsunehiko; Kusama, Tsuneom

PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan

SOURCE: Pat. Specif. (Aust.), 121 pp.

CODEN: ALXXAP

DOCUMENT TYPE: Patent

LANGUAGE: English

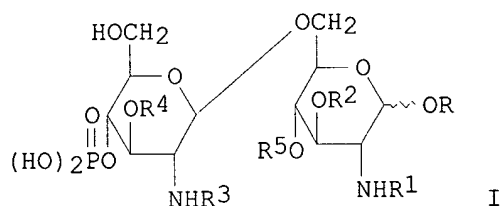
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AU 595987	B2	19900412	AU 1988-12541	19880301
AU 8812541	A1	19890907		

OTHER SOURCE(S): MARPAT 113:152973

GI



AB The title disaccharide derivs. [I; R = P(O)(OH)₂, ZR₆, CH(Z₁R₆)Z₂R₆; Z₁, Z₂ = C₁-6 alkylene; R₆ = CO₂H, P(O)(OH)₂; R₁, R₂, R₃, R₄ = COR₇, COZ₃R₈, CO(CH₂)₁CHQ₁NQ₁COR₇, CO(CH₂)₁CHQ₁NQ₁COZ₃R₈, CO(CH₂)_mO₂CR₇, CO(CH₂)_mO₂CZ₃R₈, CO(CH₂)_mCOR₇, CO(CH₂)_mCOZ₃R₈, CO(CH₂)_mCOC(CH₂)_nNQ₁COR₇, CO(CH₂)_mCO(CH₂)_nNQ₁COZ₃R₈; R₇ = (un)substituted C₁-30 alkyl; Z₃ = C₁-9 alkylene; R₈ = C₃-12 (one or more HO-substituted) cycloalkyl; Q = H, C₁-6 alkyl, CONH₂, CO₂H, CH₂OH; Q₁ = H, C₁-20 alkyl; l = 0-20; m, n = 1-20; R₅ = H, P(O)(OH)₂, CO(CH₂)_pCO₂H; p = 1-6; excluding a combination of R = P(O)(OH)₂, R₅ = H, R₁ = R₂ = R₃ = R₄ = COR₇] which are lipid A analogs having antitumor activity equal to or higher than that of the known lipid A analog I [R = P(O)(OH)₂, R₁, R₂ = (R)-3-hydroxytetradecanoyl, R₃ = (R)-3-dodecanoyloxytetradecanoyl, R₄ = (R)-4-tetradecanoyloxytetradecanoyl, R₅ = H] (II) and lower toxicity than II, are prepd. Thus, I [OR = .alpha.-CH₂CH₂P(O)(OH)₂, R₁, R₃ = N-dodecanoyl-N-methylglycyl, R₂, R₄ = N-dodecanoylglycyl, R₅ = H] (III) was prepd. by bromination of 1-O-acetyl-2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonylamino)-D-glucopyranose followed by glycosidation with 2-(diphenylphosphonoxy)ethyl 2-deoxy-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside and deprotection of the trichloroethoxy carbonyl group with Zn powder from the resulting glycoside followed by N,O-acylation with N-dodecanoyl-N-methylglycine and hydrogenolysis. A total of 81 I were prepd. and III administered to the mice at 100 .mu.g/mouse i.v. on the 7th, 12th, and 21st days from the implantation of fibrosarcoma cells, inhibited tumor growth by 19%, vs. 15% for II.

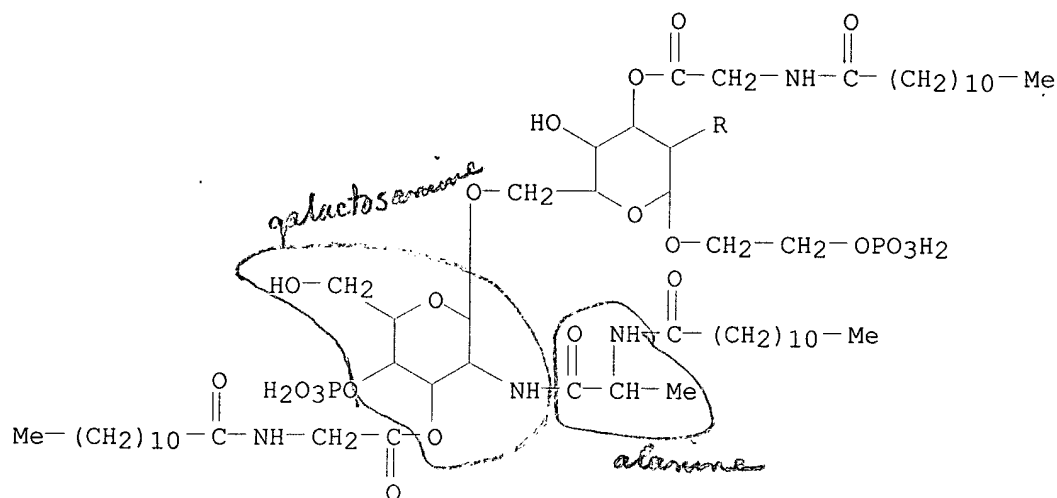
IT 126577-64-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as antitumor lipid A analog)

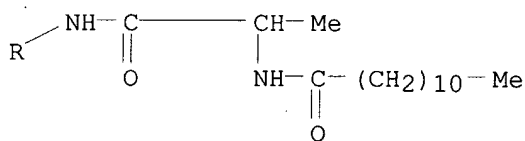
RN 126577-64-8 CAPLUS

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonoxy)ethyl
2-deoxy-6-O-[2-deoxy-3-O-[[[1-oxododecyl]amino]acetyl]-2-[[[1-oxo-2-[[1-oxododecyl]amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[[1-oxo-2-[[1-oxododecyl]amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:99142 CAPLUS

DOCUMENT NUMBER: 112:99142

TITLE: Preparation of 6-O-(.beta.-D-glucosaminyl)glucosamine derivatives as antitumor agents

INVENTOR(S): Nichima, Tsuneo; Soga, Tsunehiko

PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

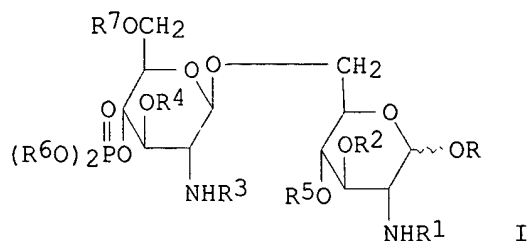
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01221387	A2	19890904	JP 1988-47247	19880229
JP 2535048	B2	19960918		

OTHER SOURCE(S): MARPAT 112:99142
GI



AB Disaccharide derivs. [I; R = P(O)(OH)₂, ZR₈, CH(Z₁R₈)Z₂R₈; Z - Z₂ = C₁-6 alkylene; R₈ = CO₂H, OP(O)(OH)₂; R₁-R₄ = COR₉, COZ₃R₁₀, CO(CH₂)_nCHQ₁COR₉, CO(CH₂)_nCHQ₁COZ₃R₁₀, etc.; R₉ = straight chain or branched C₁-30 alkyl optionally substituted by .gtoreq.1 OH; Z₃ = C₁-9 alkylene; R₆ = R₇ = H; R₁₀ = C₃-12 cycloalkyl optionally substituted by .gtoreq.1 OH; Q = C₁-6 alkyl, CONH₂, CO₂H, CH₂OH; Q₁ = H, C₁-20 alkyl; n = 0-10; R₅ = H, (HO)₂P(O), CO(CH₂)_mCO₂H; m = 0-5; excluding a combination of R = P(O)(OH)₂ or ZR₈, R₅ = H or P(O)(OH)₂, and R₁-R₄ = COR₉], useful as antitumor agents with reduced toxicity compared to the known lipid A analog I [R = P(O)(OH)₂, R₁ = R₂ = (R)-3-hydroxytetradecanoyl, R₃ = (R)-3-dodecanoyloxytetradecanoyl, R₄ = (R)-3-tetradecanoyloxytetradecanoyl, R₅ - R₇ = H] II), are prepd. Thus, treatment of 1-O-acetyl-2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonylamino)-D-glucose with 25% HBr/AcOH in CH₂Cl₂ followed by glycosidation with 2-(diphenylphosphonoxyl)ethyl 2-deoxy-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside in the presence of activated CaSO₄ and Hg(CN)₂ in CH₂Cl₂ at 50-60.degree. gave I [OR = .alpha.-OCH₂CH₂OP(O)(OPh)₂, R₁ = N-dodecanoyl-N-methylglycyl, R₂ = R₄ = N-dodecanoylglycyl, R₃ = R₇ = Cl₃CCCH₂O₂C, R₅ = H, R₆ = Ph] which was deprotected with Zn in AcOH and then condensed with N-dodecanoyl-N-methylglycine in THF in the presence of 1-hydroxybenzotriazole and DCC to give, after hydrogenolysis over PtO₂ in THF, I [OR = .alpha.-OCH₂CH₂OP(O)(OH)₂, R₁ = R₃ = N-dodecanoyl-N-methylglycyl, R₂ = R₄ = N-dodecanoylglycyl, R₅-R₇ = H] (III). III and I [OR = .alpha.-OCH₂CH₂OP(O)(OH)₂, R₁ = R₃ = N-dodecanoyl-N-dodecylglycyl, R₂ = R₄ = N-dodecanoylglycyl, R₅-R₇ = H] inhibited 19 and 24%, resp., the growth of fibroblast sarcoma Meth A transplanted in mice vs. 15% for II.

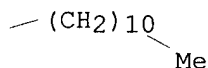
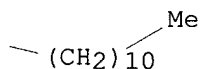
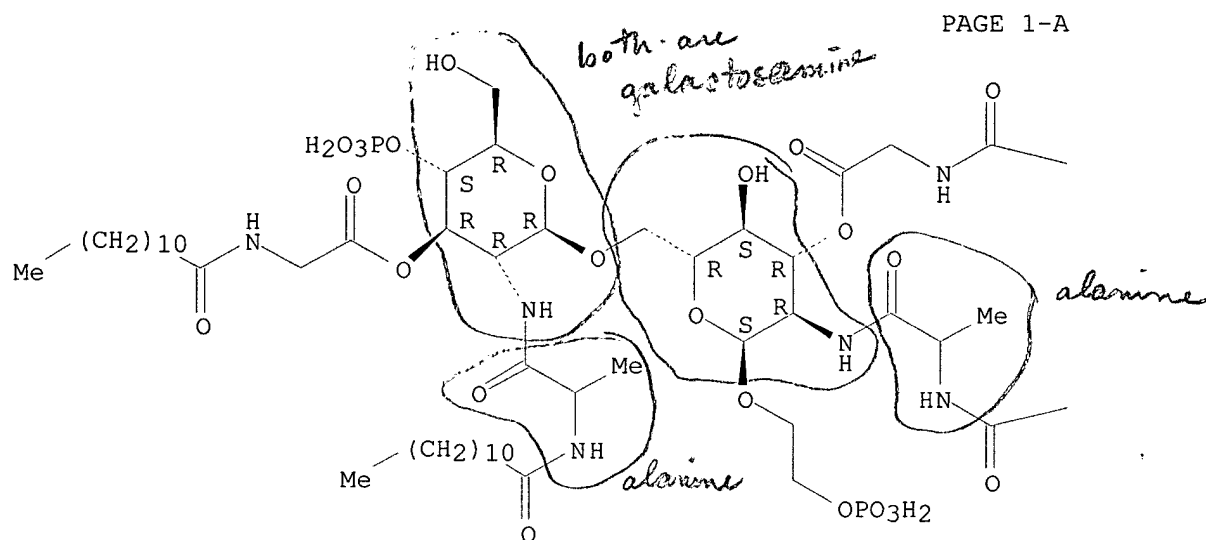
IT **123573-32-0P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as antitumor agent)

RN 123573-32-0 CAPLUS

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonoxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:198980 CAPLUS

DOCUMENT NUMBER: 112:198980

TITLE: Preparation of amino disaccharides as antitumor agents

INVENTOR(S): Kusama, Tsuneo; Soga, Tsunehiko; Shiba, Tetsuo

PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 81 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

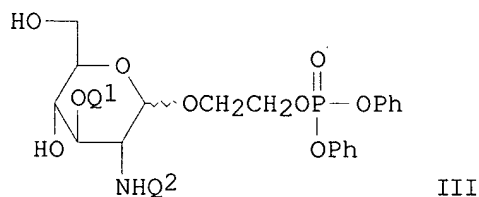
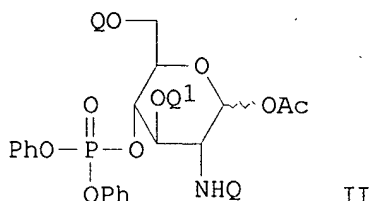
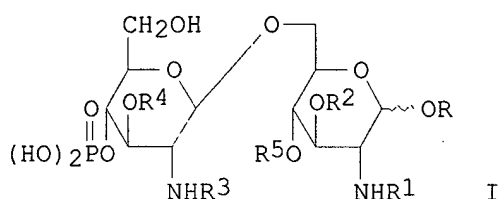
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 330715	A1	19890906	EP 1988-103185	19880302
EP 330715	B1	19930616		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE				
US 5006647	A	19910409	US 1988-162932	19880302

Searched by Barb O'Bryen, STIC 308-4291

AT 90685	E	19930715	AT 1988-103185	19880302
CA 1320951	A1	19930803	CA 1988-560369	19880302
US 5134230	A	19920728	US 1991-614417	19910118
PRIORITY APPLN. INFO.:			EP 1988-103185	19880302
			US 1988-162932	19880302
OTHER SOURCE(S):			CASREACT 112:198980; MARPAT 112:198980	
GI				



AB The title compds. [I; R = P(O)(OH)₂, ZR₆, CH(Z₁R₆)Z₂R₆; R₁, R₂, R₃, R₄ = COR₇, COZ₃R₈, etc.; R₅ = H, phosono, CO(CH₂)_mCO₂H; R₆ = CO₂H, OP(O)(OH)₂; R₇ = alkyl; R₈ = (substituted) cycloalkyl; Z, Z₁, Z₂, Z₃ = alkylene; m = 0, 1-6 integer], useful for treatment of immunodeficiency, infectious, and neoplastic diseases, are prepd. Glucopyranose deriv. II [Q = CO₂CH₂CCl₃; Q₁ = COCH₂NHCO(CH₂)₁₀Me] in CH₂Cl₂ was treated with HBr in HOAc and the product condensed with phosphonoethyl glucopyranoside III [Q₂ = COCH₂NMeCO(CH₂)₁₀Me] to give I [R = CH₂CH₂OP(O)(OPh)₂; R₁ = Q₂; R₂ = R₄ = Q₁; R₃ = Q; R₅ = H], which in HOAc was treated with Zn, and the product acylated with HOQ₂ in THF contg. 1-hydroxybenzotriazole to give I [R = CH₂CH₂OP(O)(OPh)₂; R₁ = R₃ = Q₂; R₂ = R₄ = Q₁; R₅ = H]. Hydrogenolysis of this over PtO₂ gave I [R = CH₂CH₂OP(O)(OH)₂; R₁ = R₃ = Q₂; R₂ = R₄ = Q₁; R₅ = H]. This showed a 19% suppression of tumor growth against fibrosarcoma cells (Meth A) implanted in BALB-c mice vs. 15% for natural lipid A.

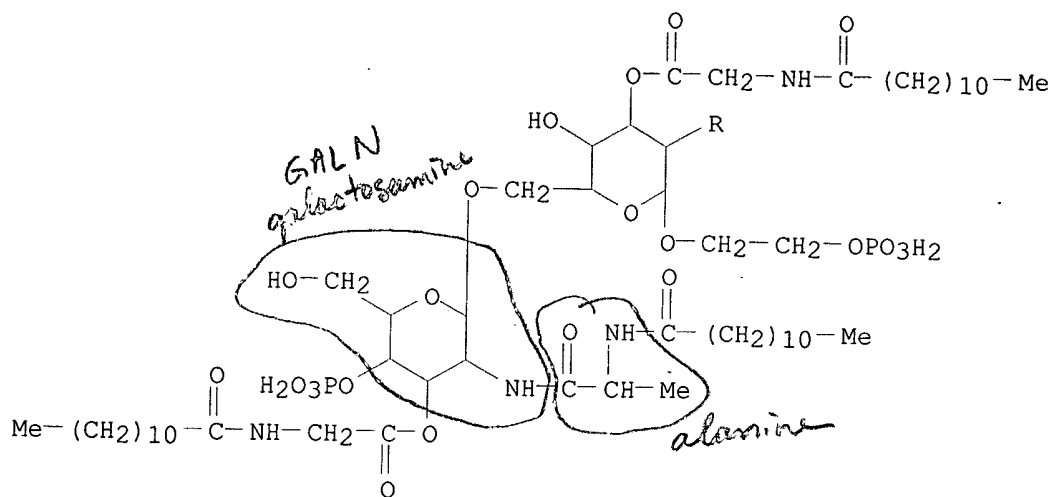
IT 126577-64-8P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as drug)

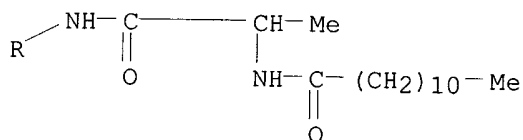
RN 126577-64-8 CAPLUS

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonoxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[[(1-oxododecyl)amino]acetyl]-2-[[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



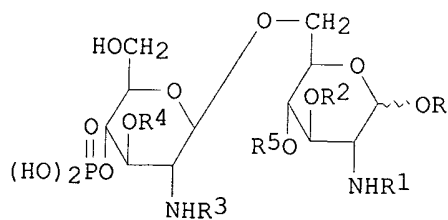
PAGE 2-A



L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1990:77859 CAPLUS
 DOCUMENT NUMBER: 112:77859
 TITLE: Preparation and testing of N,O-acyldiglucosamine phosphates as antitumor agents
 INVENTOR(S): Kusama, Tsuneo; Soga, Tsunehiko; Shiba, Tetsuo
 PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
 SOURCE: S. African, 117 pp.
 CODEN: SFXAB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 8801430	A	19881228	ZA 1988-1430	19880229

OTHER SOURCE(S): MARPAT 112:77859
 GI



AB The title disaccharides [I; R = (HO)2P(O), CH(Z1R6)Z2R6; Z, Z1, Z2 = C1-6 alkylene; R6 = CO2H, OP(O)(OH)2; R1-R4 = COR7, COZ3R8, CO(CH2)1CHQNQ1COR7, CO(CH2)1CHQNQ1COZ3R8, CO(CH2)mCOR7, CO(CH2)mO2CZ3R8, CO(CH2)mCOR7, CO(CH2)mCOZ3R8, CO(CH2)mCO(CH2)mNQ1COR7, CO(CH2)mCO(CH2)nNQ1COZ3R8; R7 = C1-30 alkyl optionally substituted with .gtoreq.1 OH groups; Z3 = C1-9 alkylene; R8 = C3-12 cycloalkyl optionally substituted with .gtoreq.1 OH groups; Q = H, C1-6 alkyl, CONH2, CO2H, CH2OH; Q1 = H, C1-20 alkyl; l, m, n, = 0-20; R5 = H, (HO)2P(O), HO2C(CH2)oCO; o = 0-6; excluding a combination wherein R = (HO)2P(O), R5 = H, and R1-R4 = COR7] useful as antitumor agents, were prepd. Bromination of 1-O-acetyl-2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonyl)-D-glucopyranose with a CH2Cl2 soln. of 30% HBr in AcOH followed by glycosidation with 2-(diphenylphosphonoxy)ethyl 2-deoxy-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside in CH2Cl2 in the presence of activated CaSO4 and Hg(CN)2 gave 2-(diphenylphosphonoxy)ethyl 2-deoxy-6-O-[2-deoxy-4-O-diphenylphosphono-3-O-(N-dodecanoylglycyl)-6-O-(2,2,2-trichloroethoxycarbonyl)-2-(2,2,2-trichloroethoxycarbonylamino-.beta.-O-glucopyranosyl]-3-O-(N-dodecanoylglycyl)-2-[(N-dodecanoyl-N-methylglycyl)amino]-.alpha.-D-glucopyranoside. Deprotection of the latter with Zn powder in AcOH followed by amidation with N-dodecanoyl-N-methylglycine in THF contg. DCC and 1-hydroxybenzotriazole and hydrogenolysis over PtO2 in THF gave I [R = .alpha.-CH2CH2OP(O)(OH)2, R1 = R3 = N-dodecanoyl-N-methylglycyl, R2 = R4 = N-dodecanoylglycyl, R5 = (HO)2P(O)]. I [R = .alpha.-CH2CH2OP(O)(OH)2, R1 = R3 = tetradecanoyl, R2 = R4 = 4-oxotetradecanoyl, R5 = H] at 100 .mu.g i.v. in mice on the 7th, 12th, and 21st days reduced the wt. of fibrosarcoma tumors in mice to 5% of that of controls.

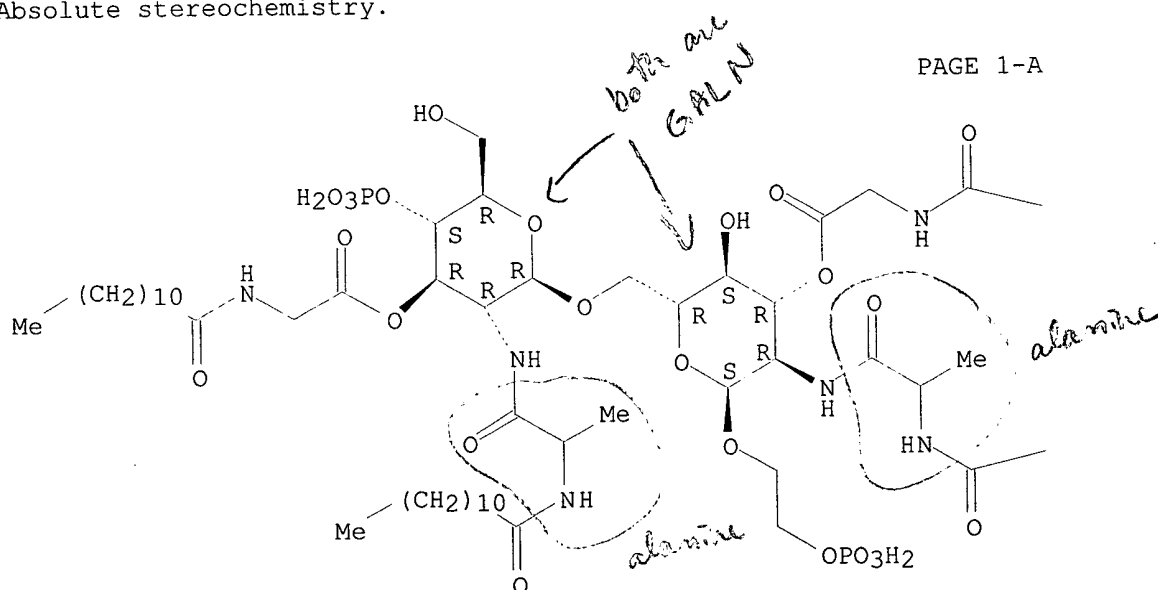
IT 123573-32-0P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as antitumor agent)

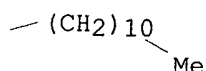
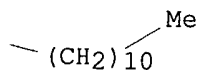
RN 123573-32-0 CAPLUS

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonoxy)ethyl 2-deoxy-6-O-[2-deoxy-3-O-[[1-(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside (9CI) (CA INDEX NAME)

Absolute stereochemistry.



PAGE 1-B



L10 ANSWER 5 OF 6 USPATFULL

ACCESSION NUMBER: 92:62001 USPATFULL
 TITLE: 2-Deoxy-2-aminoglucofuranoside derivatives
 INVENTOR(S): Kusama, Tsuneo, Tokyo, Japan
 Soga, Tsunehiko, Tokyo, Japan
 Shiba, Tetsuo, Osaka, Japan
 PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Tokyo, Japan
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5134230		19920728
APPLICATION INFO.:	US 1991-614417		19910118 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1988-162932, filed on 2 Mar 1988, now patented, Pat. No. US 5006647		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Brown, Johnnie R.		
ASSISTANT EXAMINER:	White, Everett		
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2528		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A disaccharide compound represented by formula (I): ##STR1## wherein R, R.sup.1, R.sup.2, R.sup.3, R.sup.4, and R.sup.5 are as defined in the specification and a salt thereof are disclosed. The compound exhibits excellent antitumor activity and low toxicity and is useful as an antitumor agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

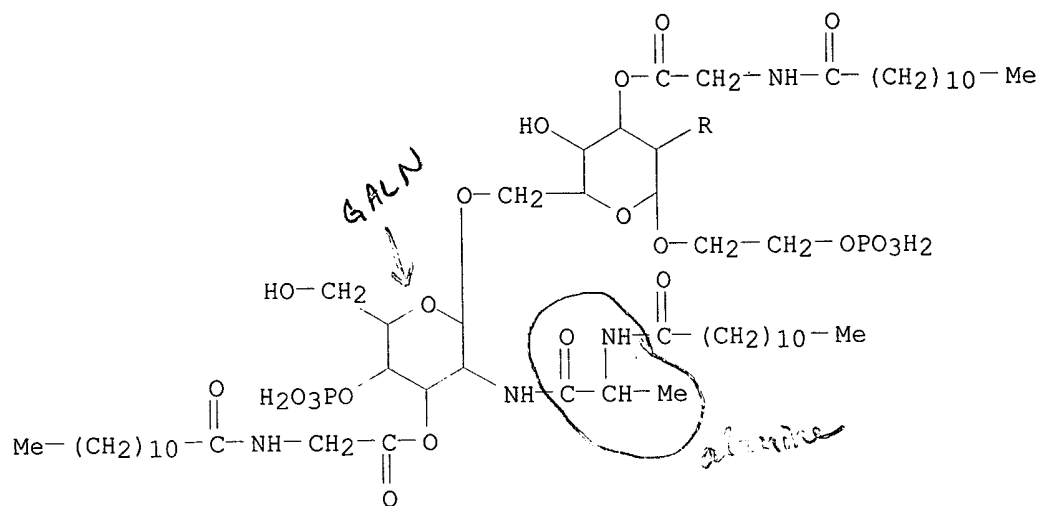
IT 126577-64-8P

(prepn. of, as drug)

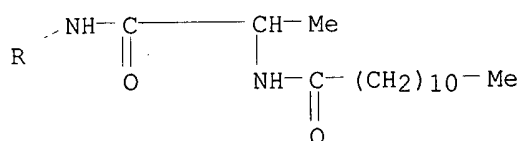
RN 126577-64-8 USPATFULL

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonoxy)ethyl
 2-deoxy-6-O-[2-deoxy-3-O-[[[1-oxododecyl]amino]acetyl]-2-[[[1-oxododecyl]amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[[1-oxo-2-[(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

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PAGE 2-A



L10 ANSWER 6 OF 6 USPATFULL

ACCESSION NUMBER: 91:28713 USPATFULL
 TITLE: Phosphorus containing disaccharide derivatives
 INVENTOR(S): Kusama, Tsuneo, Tokyo, Japan
 Soga, Tsunehiko, Tokyo, Japan
 Shiba, Tetsuo, Osaka, Japan
 PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5006647		19910409
APPLICATION INFO.:	US 1988-162932		19880302 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Griffin, Ronald W.		
ASSISTANT EXAMINER:	White, Everett		
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2461		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A disaccharide compound represented by formula (I): ##STR1## wherein R, R.sup.1, R.sup.2, R.sup.3, R.sup.4, and R.sup.5 are as defined in the specification and a salt thereof are disclosed. The compound exhibits excellent antitumor activity and low toxicity and is useful as an antitumor agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

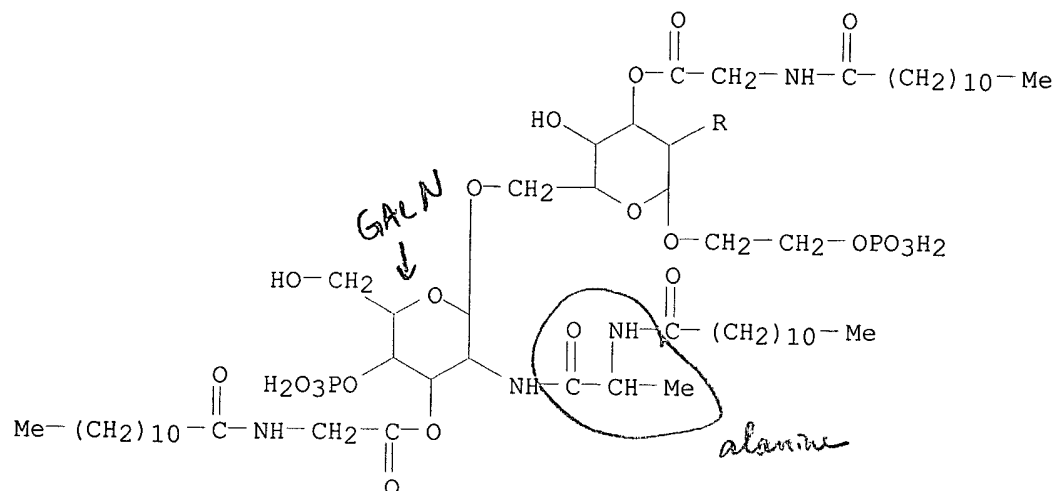
IT 126577-64-8P

(prepn. of, as drug)

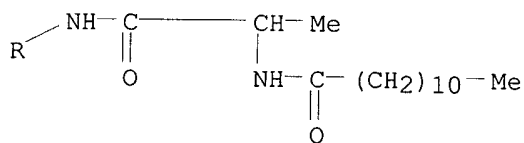
RN 126577-64-8 USPATFULL

CN Glycine, N-(1-oxododecyl)-, 3-ester with 2-(phosphonooxy)ethyl
 2-deoxy-6-O-[2-deoxy-3-O-[[1-(1-oxododecyl)amino]acetyl]-2-[[1-oxo-2-[[1-oxododecyl)amino]propyl]amino]-4-O-phosphono-.beta.-D-glucopyranosyl]-2-[[1-oxo-2-[[1-(1-oxododecyl)amino]propyl]amino]-.alpha.-D-glucopyranoside, [2(S),6(S)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



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Searched by Barb O'Bryen, STIC 308-4291

L3 STR
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L6 2 SEA FILE=REGISTRY ABB=ON L5 NOT L2
L9 0 SEA FILE=CAOLD ABB=ON L6

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